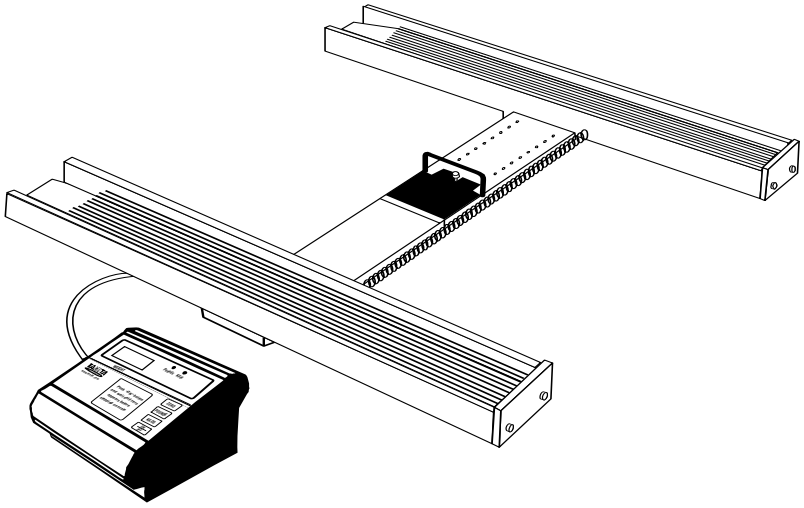
TANITA

Monitoring Your Health

Model 4521
Portable Wheelchair Scale

OPERATOR'S MANUAL



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Tanita Corporation's line of electronic scales uses the most sophisticated microprocessor technology available. Each precision instrument is designed to provide accurate, reliable and repeatable weight measurements, as well as many other features that make the weighing process simple, fast and convenient.

This operation manual contains instructions for use. In order to achieve satisfactory results, the operator must read this manual thoroughly before using this scale. If questions arise regarding this scale or its use, please contact Tanita Corporation of America, Inc.

CAUTIONS AND WARNINGS

Cautions

- To ensure proper operation of the 4521 Wheelchair Scale, this operator's manual should be read carefully before operation. Keep this manual available for future reference, and also for use in the orientation of new personnel.
- Use only the appropriate connecting cable designed specifically for use with this monitor. If the cabling provided with this unit becomes cracked or damaged, it should be repaired or replaced immediately.
- If the scale becomes damaged, it should not be operated until properly serviced. All repairs should only be performed by authorized Tanita Corporation service personnel.
- Scales are designed for static weighing of patients only. **No scale should be used for patient transfer. Tanita Corporation assumes no responsibility for patient injury or scale damage should this caution be ignored.**
- **Do not leave patients unattended on the scale.**

Warnings

Failure to comply with the following will void scale warranty:

- Do not gas sterilize or autoclave the scale.
- Do not place liquids on top of the scale read-out console.
- Do not exceed recommended weight limit of **500 lb./225 kg.** for this scale.
- Scales contain delicate sensors. Do not bang into doors, elevators, etc., as damage may result.

ASSEMBLY INSTRUCTIONS

Before Assembly

NOTE: *Carefully inspect all cartons for shipping damage before unpacking. If damage is found, contact your shipper or Tanita Corporation immediately. Claims must be filed with the shipper as soon as possible after receipt of the damaged package.*

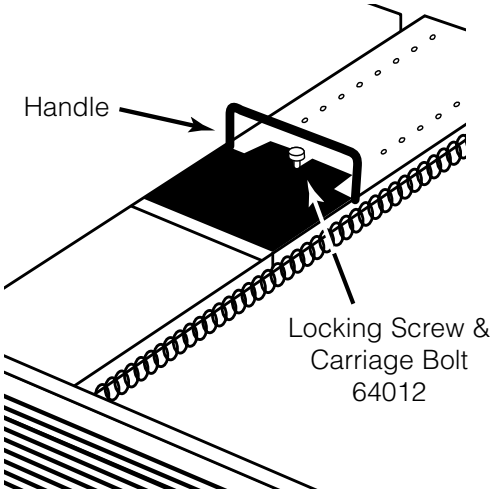
One carton containing: Folding platform

One parts box containing: AC adaptor, four (4) threaded feet, two (2) sheets of adhesive labels, and two (2) elastic cords.

Another small box containing: The electronic control panel box.

Tools Needed: None

Fig. 1

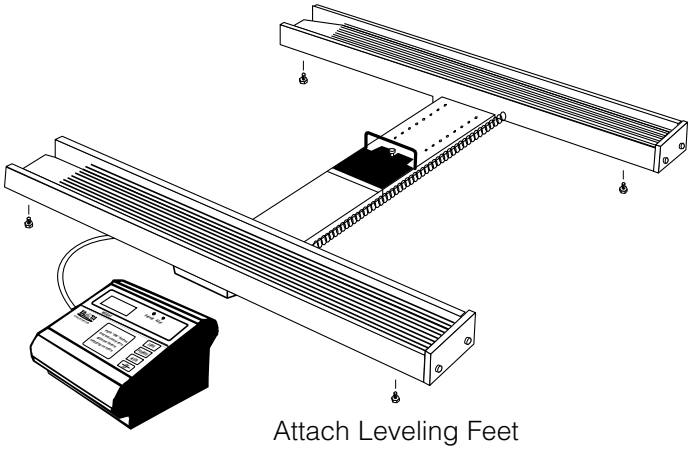


Assembling the Portable Wheelchair Scale

1. Place the platform on the floor, in the open position.
2. Slide the locking screw over the black tabs on the handle. Tighten securely by hand. (Fig. 1)
3. Turn scale over and thread the four leveling feet into the threaded holes on the underside of the platform. Tighten by hand only. DO NOT use tools to tighten the feet or damage to the scale will result. (Fig. 2)
4. Plug the transducer cable (63826) into the matching jack on the control box. Hand tighten the threaded lock ring.
5. Plug the AC adapter into any grounded 110-120V AC outlet. Plug the other end of the 3-pin adapter cable into the matching jack on the control box. Hand tighten the threaded lock ring.

   NOTE: *DO NOT over-tighten the lock rings on the connectors.*

Fig. 2

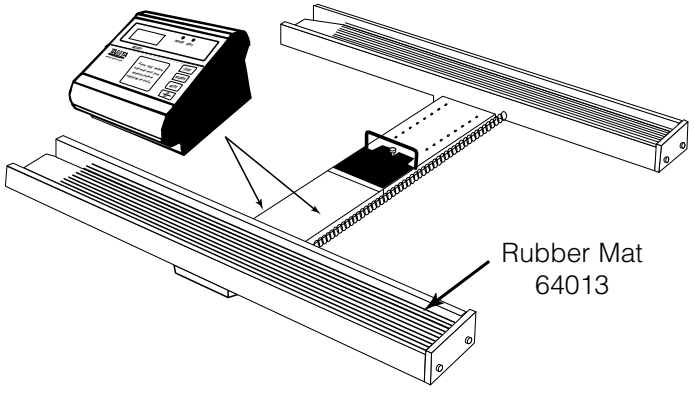


Leveling the Platform

To level or adjust the height of the scale platform, carefully tilt the scale and turn the leveling feet either into or out of the platform underside.

NOTE: *Adjust platform height so it does not touch floor or carpet. An incorrect weight reading will result if the ramp touches the floor or carpet.*

Fig. 3



BATTERY CHARGING

The rechargeable battery in this scale is similar to the no-maintenance lead-acid batteries used in automobiles. Since the battery is sealed, no checking of water level or adding of water to the battery is necessary. However, recharging at proper intervals and proper storage procedures are necessary, similar to an automobile battery. A fully charged battery will provide approximately 250 normal weighings before requiring recharging. When the display flashes "Lo-b," the battery needs to be recharged.

Charging the Battery

A. Plug the battery charger power cord into the 3-prong jack on control panel box. Secure by turning the knurled ring.

B. Plug the battery charger into a 120 VAC outlet.

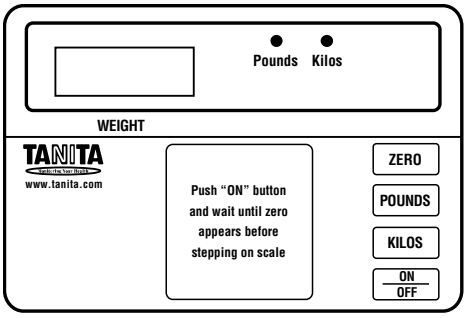
C. The battery will fully charge in 8 hours. THE SCALE MAY BE USED WHILE THE BATTERY IS CHARGING.

NOTE: *The specially designed charger built into this scale prevents the battery from being overcharged. Use of a charger or adapter other than the one designed for this scale can result in SERIOUS DAMAGE TO THE SCALE OR BATTERY.*

Optimum battery life will be obtained if the scale is operated and stored connected to 120 VAC. Always check the plug to see if the scale is charging before moving.

STORAGE: *When storing the scale for an extended period of time (and the unit is not connected to a 120 VAC), the battery should be fully charged. The battery should then be charged every three months. A discharged battery should be recharged as soon as possible to prevent its useful life from decreasing significantly. A discharged battery left in the scale can leak and cause permanent damage to the battery and scale. Store the unit in a cool, dry place.*

PRODUCT DESCRIPTION



Keypad
63911

Control Panel Box

The 4521 control panel keypad has four membrane switches. The POUNDS, KILOS, and ZERO switches have both primary and secondary functions listed below. Only the primary functions are listed on the switch.

Switch	Primary Function	Secondary Function
On/Off	Depress to turn scale on or off.	
Kilos	Depress to display weight in kilograms (light over switch will illuminate to indicate kilogram mode).	While in Kilos mode, depress for average reading when excessive movement prevents stationary measurement. Depress after any reading to "lock" reading. Reading remains displayed for approximately 1 minute after patient is removed from scale, or until switch is depressed again. Kilos light will flash to indicate average or locked reading.
Pounds	Depress to display weight in pounds (light over switch will illuminate to indicate pounds mode).	Depress while in Pounds mode to average reading. Depress after any reading in pounds mode to "lock" in reading. Light will flash to indicate average or locked reading.
Zero	Zeros readout (zeros out the weight of foreign object, e.g. blanket placed on platform).	Depress after initial weight is taken to reweigh individual.

Special Features

Tanita Corporation's electronic scales come standard with these special features:

1. **Autozero:** The scale will automatically display "0" when turned on. If a foreign object is placed on the platform before turning the scale on, it will automatically zero out that object's weight.
2. **English-Metric Readout:** You may switch between metric (kilos) and English (pounds) readouts before or after a reading, and the scale will convert one reading to the other.
3. **Recalculate Weight:** If the first reading of a patient's weight is suspect, a second reading can be taken without removing the patient from the scale. To reweigh the patient, simply depress the Zero switch.
4. **Average Weight:** In most cases, the 4521 Scale displays an actual weight based on a series of consistent stable measurements. However, if the wheelchair/patient keeps moving, the scale may not get the readings required to give a "stable weight." In these instances an average weight can be determined by activating the Average Locking feature. Depress the Pounds (or Kilos) switch (dependent upon measurement preference). The indicator light should start flashing. A weight should appear in place of the moving dashes. Depress the Pounds or Kilos switch again to deactivate the feature.
5. **Zero Ability:** The operator can "zero out" the weight of a blanket, etc., upon which a patient is to be weighed.

Specifications

Dimensions

Height .....2.5"
Width.....21.25" to 29.75"
Length .....31"
Weight (no package included) .....26 lb.

Power Requirements

Input Power .....120 VAC/60 Hz

Operating Conditions

Temperature/Humidity .....Normal Room Temperature and Humidity

Scale Description

Type.....Strain Gauge
Maximum Capacity .....500 lb./227 kg.
Resolution .....0.1 lb./0.1 kg.
Accuracy.....± 0.1 lb./± 0.1 kg.
Maximum Zero Weight .....12.5 lb./5.6 kg.

OPERATING INSTRUCTIONS

As a Wheelchair Scale

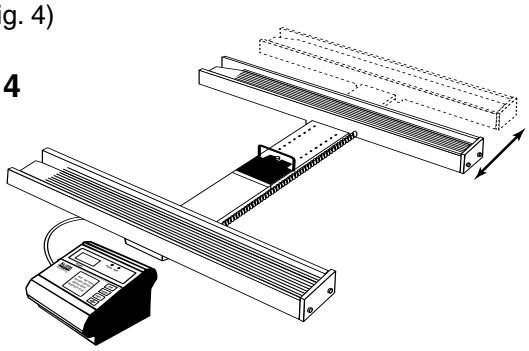
When using the 4521 Wheelchair Scale, the weight of the wheelchair must be taken into account. Weigh the wheelchair by itself to determine its weight and then subtract this weight from the combined weight of patient and wheelchair.

IMPORTANT: *Adjust platform height so it does not touch the floor or carpet. An incorrect patient weight reading will result if the ramp touches the floor or carpet. (See Section "Leveling the Platform" on page 2.)*

Weighing the Wheelchair

1. Place the control panel box away from the scale so that the cables do not cross the platform rails.
2. Adjust the scale width by sliding the adjustable rail until the wheelchair wheels line up with the platform rails. (Fig. 4)

Fig. 4



3. Turn scale on by depressing the On/Off switch. Wait for the display to show "0."
4. Roll the empty wheelchair onto the scale. Wait for the moving dashes to lock in and display the weight of the wheelchair.
5. Record the wheelchair weight.
6. Remove the wheelchair from the scale platform and turn scale off.

Taking a Weight Measurement

1. Before wheeling patient onto scale platform, make certain wheels line up with the platform rails. If they need to be adjusted, repeat steps 1 and 2 under "Weighing the Wheelchair" above.
2. Wheel the patient onto the scale platform. Then lock the wheels to prevent rolling during weighing.
3. The moving dashes will lock in and display the weight measurement.
   - Measurement automatically defaults to pounds. If kilograms are required, depress the Kilos switch.
   - If a reweigh is required, depress the Zero switch.
4. Deduct the wheelchair weight from the displayed weight to obtain the patient's weight.
5. Excessive movement may prevent a repeatable reading. In this case, a series of moving dashes continues to appear on the console rather than a weight reading. If moving dashes persist, activate the "Average Lock" by depressing the appropriate Pounds or Kilos switch to obtain an average reading of the patient's weight.

   NOTE: *This reading is an instantaneous average of weights that the computer calculates.*
6. After the weight measurement is obtained and recorded, remove the patient from the scale.
7. Depress the On/Off switch to turn the scale off.

As a Chair Scale

When using the Wheelchair Scale as a Chair Scale, the weight of the chair used to seat the patient on must be taken into account. This is accomplished by weighing the chair by itself to zero-out its weight.

Failure to correctly zero out the weight of the chair will result in incorrect patient weight readings.

Weighing the Chair

1. Place the control panel box away from the scale so that the cables do not cross the platform rails.
2. Adjust the scale width by sliding the adjustable rail so the legs of the chair can rest on the platform rails.
3. Place the chair on the scale rails so the seat is directly over the center beam.
4. Turn the scale on. The scale will zero out the weight of the chair leaving a "0" on the display.

Taking a Weight Measurement

1. Once the chair weight has been zeroed out and the display reads "0," have the patient sit on the chair.
2. The moving dashes will lock in and display the patient's actual weight.
3. Weight measurement should automatically be displayed on the control panel box console.
   - Measurement automatically defaults to pounds. If kilograms are required, push the Kilos switch.
   - If a reweigh is required, depress the Zero switch.
4. Excessive movement may prevent a repeatable reading. In this case, a series of moving dashes continues to appear on the console rather than a weight reading. If moving dashes persist, activate the "Average Lock" by depressing the appropriate Pounds or Kilos switch to obtain an average reading of the patient's weight.

   Note: *This reading is now an average of weights that the computer calculates.*
5. After weight measurement is obtained and recorded, have the patient stand up off the chair and step away from the scale.
6. Depress the On/Off switch to turn the scale off.

CARE AND MAINTENANCE

Proper care and cleaning of all Tanita Corporation scales and accessories is essential to ensure a long life of accurate and effective operation. In addition to routine cleaning, include a regular check of all structural apparatus to ensure stability.

Cleaning

Disconnect scale from 120 VAC before cleaning.

1. All external surfaces can be wiped clean with a damp cloth. Mild soap and water solution may be used. Wipe unit dry with a clean, soft cloth.
2. **DO NOT** immerse control panel box into cleaning or other liquid solutions.
3. **DO NOT** use isopropyl alcohol or other solutions to clean surface of control panel box.
4. Check the overall appearance of the whole scale for any obvious damage, wear and tear. Inspect the AC cord and adapter for cord cracking or fraying or for broken or bent prongs.

Calibration

Note: *Your scale has been accurately calibrated at the factory. However, there is always a possibility that the calibration changed due to jarring during shipping. The following procedure should be followed to check and/or correct any error in calibration.*

1. Depress On/Off switch on scale and wait for a display of "0."
2. Place an accurately known weight on the platform.
3. If display is other than known weight, then the scale is out of calibration.
4. Remove the upper 2 screws from each side of the control panel. Slightly loosen the bottom 2 screws on each side, **but do not remove**. Lift off the top portion of the head. **Be careful, since it is attached to the bottom portion with a ribbon cable.** You will see 2 small adjustment screws toward the front of the control board. The left metal screw is for coarse adjustments; it adjusts for large errors. The right plastic screw is for fine adjustments; it adjusts small errors.
5. Turn the metal coarse calibration screw in small increments, **CLOCKWISE to increase weight or COUNTERCLOCKWISE to decrease weight.** In most cases, this is the only adjustment needed.
6. If necessary, make adjustments with the plastic fine adjustment screw (right). **CLOCKWISE to decrease weight; COUNTERCLOCKWISE to increase weight.**
7. Remove weight and depress Zero switch. Wait for a display reading of "0." Again add known weight to platform. If reading is correct, no further adjustments are necessary. If reading is incorrect, repeat steps 5 and 6 until correct reading is obtained.

NOTE: *The **Top Knob** is for fine adjustment and the **Bottom Knob** is for coarse adjustment. The fine adjustment knob works opposite of the coarse adjustment knob—CLOCKWISE if too heavy and COUNTERCLOCKWISE if too light.*

TROUBLESHOOTING

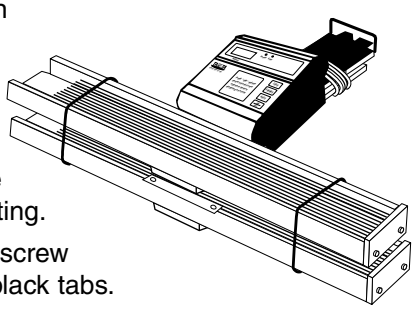
The following guide will help you to solve common problems:

PROBLEM	SOLUTION
Incorrect patient weight readings	A. Platform is too low and hitting platform feet or carpet. Increase platform height. See “Leveling the Platform” on page 2. B. Person, other than person being weighed, is touching or leaning on scale handlebar C. Weight of wheelchair or chair is not taken into account. See “Operating Instructions” on page 4. D. Platform is not level. See “Leveling the Platform” on page 2.
Patient weight readings consistently too high or too low	Check scale calibration and calibrate if necessary. See “Calibration” on page 5.
Display flashes “Lo-b”	Recharge battery. See “Charging the Battery” on page 3.

TRANSPORTING AND STORING

See Fig. 5 for visual assistance.

Fig. 5



1. Unplug the adapter from the outlet, then unscrew it from the electronic control box and set the adapter aside.
2. Slide the adjustable rail to its widest setting.
3. Loosen the locking screw and slide it off the black tabs.
4. Slowly lift the scale by the handle. Avoid letting the rails bang together.
5. Wrap an elastic cord (64010) around each end of the rails and hook the cord ends together.
6. Unscrew the scale cable from the control box and firmly place the control panel box on the velcro tape of the center column. Wrap the cable around the center column above the control panel box and secure.
7. The scale is now ready for transportation or storage.
8. Remember to keep the adapter with the scale.
9. For additional convenience and protection of your portable wheelchair scale, a scale storage bag is available from your Tanita representative.

PARTS LIST

COMPUTER BOARD

Qty	Part Description	Location
	RES. CF 3.9K 1/4W 5%	R1
	RES. CF 2.7 1/4W 5%	R2
	RES. CF 1K 1/4W 5%	R3
	RES. MOX .47 1W 5%	R4
	RES. CF 1K 1/4W 5%	R5
	RES. CF 120 1/4W 5%	R6
	RES. CF 22 1/4W 5%	R7
	RES. CF 27K 1/4W 5%	R8
	RES. CF 27K 1/4W 5%	R9
	RES. CF 27K 1/4W 5%	R10
	RES. CF 27K 1/4W 5%	R11
	RES. CF 10 1/4W 5%	R12
	RES. CF 560 1/4W 5%	R13
	RES. CF 560 1/4W 5%	R14
	RES. CF 1K 1/4W 5%	R15
	RES. CF 27K 1/4W 5%	R16
	RES. CF 2.2K 1/4W 5%	R17
	RES. CF 33K 1/4W 5%	R18
	RES. CF 33K 1/4W 5%	R19
	RES. CF 470K 1/4W 5%	R20
	RES. CF 3.9K 1/4W 5%	R21
	RES. CF 33K 1/4W 5%	R22
	RES. CF 33K 1/4W 5%	R23
	RES. CF 33K 1/4W 5%	R24
	RES. CF 3.9K 1/4W 5%	R25
	RES. CF 3.9K 1/4W 5%	R26
	RES. CF 150K 1/4W 5%	R27
	RES. CF 15K 1/4W 5%	R28
	RES. CF 33K 1/4W 5%	R29
	RES. CF 68K 1/4W 5%	R30
	RES. CF 33K 1/4W 5%	R31
	RES. CF 33K 1/4W 5%	R32
	SELECTED VALUE	R33
	RES. MF 324K 1/4W 1%	R34
	RES. MF 402K 1/4W 1%	R35
	RES. MF 402K 1/4W 1%	R36
	RES. CF 2.2K 1/4W 5%	R37
	RES. CF 10K 1.4W 5%	R38
	RES. CF 3.3M 1/4W 5%	R39
	RES. CF 10K 1.4W 5%	R40
	*RES. MF 402K 1/4W 1%	R41
	*RES. MF 402K 1/4W 1%	R42
	RES. CF 27K 1/4W 5%	R43
	RES. MF 4.02K 1/4W 1%	R44
	RES. MF 4.02K 1/4W 1%	R45
	RES. CF 27K 1/4W 5%	R46
	RES. CF 15K 1/4W 5%	R47
	RES. MF 2.00K 1/4W 1%	R48
	RES. MF 9.31K 1/4W 1%	R49
	POT 1K 1 TURN	VR1
	POT 25K 20 TURN	VR2
	CAP ELE 470UF 25V	C1
	CAP ELE 4.7UF 50V	C2
	CAP TANT 1UF 35V	C3
	CAP CER NPO 22PF 50V	C4
	CAP CER 100PF 50V	C5
	CAP ELE 47UF 25V	C6
	CAP ELE 470UF 25V	C7
	CAP CER 1UF 35V	C8
	CAP MY .47UF 100V	C9
	CAP ELE .47UF 16V	C10
	CAP ELE 100UF 25V	C11
	CAP ELE 470UF 25V	C12
	CAP MONO CER .22PF 50V	C13
	CAP ELE 4.7UF 50V	C14
	CAP TAN 1UF 25V	C15
	CAP PS AX .0047UF 50V	C16
	CAP CER .001UF 50V	C17
	CAP MONO CER .1UF 25V	C18
	CAP MONO CER .1UF 25V	C19
	CAP PC AX .1UF 100V	C20
	CAP PC AX .1UF 100V	C21

Qty	Part Description	Location
	CRYSTAL 6.0 MHz	C22 X1
	OPTICAL 7-SEG.-RED MAN 4710A	D1
	OPTICAL 7-SEG.-RED MAN 4710A	D2
	OPTICAL 7-SEG.-RED MAN 4710A	D3
	OPTICAL 7-SEG.-RED MAN 4710A	D4
	IC SOCKET 14 PIN LOW-PRO	D1
	IC SOCKET 14 PIN LOW-PRO	D2
	IC SOCKET 14 PIN LOW-PRO	D3
	IC SOCKET 14 PIN LOW-PRO	D4
	OPTICAL DISCRETE-RED LT4223	D5
	OPTICAL DISCRETE-RED LT4223	D6
	RES. NETWORK 47	RN1
	TRANS. PNP PWR 2N6728	Q1
	TRANS. PNP PWR 2N6728	Q2
	TRANS. PNP PWR 2N6728	Q3
	TRANS. PNP PWR 2N6728	Q4
	TRANS. PNP PWR TIP32	Q5
	TRANS. NPN GEN MPS3704	Q6
	TRANS. PNP PWR TIP32	Q7
	TRANS. PNP GEN MPS3702	Q8
	TRANS. NPN GEN MPS3704	Q9
	TRANS. NPN GEN MPS3704	Q10
	TRANS. NPN GEN MPS3704	Q11
	TRANS. NPN GEN MPS3704	Q12
	TRANS. NPN GEN MPS3704	Q13
	TRANS. NPN GEN MPS3704	Q14
	TRANS. NPN GEN MPS3704	Q15
	TRANS. NPN GEN MPS3704	Q16
	TRANS. NPN GEN MPS3704	Q17
	TRANS. NPN GEN MPS3704	Q18
	TRANS. NPN GEN MPS3704	Q19
	TRANS. NPN GEN MPS3704	Q20
	IC SOCKET 16 PIN	J1
	HEADER 2PIN .156C	J2
	HEADER 2PIN .156C	J3
2	HEADER 3PIN .100C	J4
	HEADER 5PIN .156C	J5
	DIODE SIGNAL 1N4148	CR1
	DIODE ZENER 9.1V 1N4739A	CR2
	DIODE REC 600V 1N4005	CR3
	DIODE REC 600V 1N4005	CR4
	DIODE REC 600V 1N4005	CR5
	DIODE REC 600V 1N4005	CR6
	DIODE SIGNAL 1N4148	CR7
	DIODE REC 600V 1N4005	CR8
	DIODE REC 600V 1N4005	CR9
	DIODE REC 600V 1N4005	CR10
	DIODE REC 600V 1N4005	CR11
	DIODE REC 600V 1N4005	CR12
	DIODE REC 600V 1N4005	CR13
	CIODE SIGNAL 1N4148	CR14
2	IC REGULATOR 5V 7805	U1
	IC REGULATOR 5V 7805	U2
	IC MICROPROCESSOR 8748	U3
	IC DUAL OP-AMP LM358N	U4
	IC HEX INVERT BUFF CD4049UBE	U5
	IC QUAD BILAT SW CD4016BE	U6
	IC DUAL OP-AMP LM358N	U7
	IC OP-AMP ICL7652CPD	U8
	IC DUAL COMPARATOR LM393N	U9
	IC SOCKET 40PIN	U3
	CABLE ASMBLY 16 PIN DRB TO	
	DIP 15 INCH	J1
	HEADER 6PIN .100C	J2
	RES. FILM 120 1/4W 5%	R1
	RES. FILM 120 1/4W 5%	R2
	TRANS. NPN GEN MPS 3704	Q1
	HEAT SINK TO-220	Q7
4	SCREW, 4-40 X 3/8	
4	NUT, 4-40 KEPS	
3	JUMPER .6 22GA.	
	PCB SCALE DISPLAY	

DISPLAY BOARD

Qty	Part Description
1	RES.CF 120 1/4W 5%
1	RES. CF 10K 1/4W 5%
1	TRANS. NPN GEN MPS3704
2	LED DISCRETE T-1 3/4 RED
4	7-SEG DISPLAY
4	IC SOCKET, 14 PIN
1	HEADER, 6 PIN .100C RT
3	JUMPER, .6 IN 22ga
1	RIBBON CABLE, 16 COND

PARTS AND ACCESSORIES

Description	Part No.
Display Board with cable	63663
Keypad	63911
3-Prong Jack	63894
5-Prong Jack	63932
Elastic Cord	64010
Leveling Feet	63879
Rubber Mat	64013
R4	63878
7 Segment Display	63999
Transformer Cable	63826
Locking Screw & Carriage Bolt	64012
Shipping Carton	63989

* Value may change depending on gain requirements of scale model

WARRANTY

Tanita Corporation ("Tanita") warrants that for a period of three years from the date of purchase, this product will be free from defects in material and workmanship. This warranty covers all components of this scale, with the exception of the AC adapter. The AC adapter is warrantied for one year. Tanita, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original purchaser from the date of initial purchase and is not transferable. Tanita dealers, service centers, or retail store outlets selling Tanita products do not have the right to alter, modify or in any way change the terms and conditions of this warranty.

The warranty does not cover normal wear of parts or damage resulting from negligent misuse of the product. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes, and tornadoes.

Tanita shall not be liable for any incidental or consequential damages caused by the breach of an express or implied warranty or condition. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Tanita disclaims all other warranties or conditions, express or implied statutory or otherwise. Some provinces or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

How to Obtain Warranty Service

Call (877) 682-6482 to obtain a Return Authorization for warranty service. Then, send the product with proof of purchase included. Ship with freight and insurance prepaid to:

Tanita Corporation of America Inc.
Attn: R/A #_____
102 Progress Drive
Saukville, WI 53080

Make certain that your scale is properly packed to avoid damage in transit to the factory. If your scale is not covered by warranty, or has been damaged, an estimate of repair costs or replacement costs will be provided to you for approval prior to servicing or replacing.

TANITA
Monitoring Your Health

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